

MD 355 IS CONSIDERED TO  
RUN IN NORTH-SOUTH DIRECTION.

#### GEOMETRIC CONSTRUCTION DETAILS

- INSTALL PARALLEL SIDEWALK RAMP  
(STANDARD NO. MD 655.12) WITH  
DETECTABLE WARNING SURFACE  
(STANDARD NO. MD 655.40)
- INSTALL PERPENDICULAR SIDEWALK RAMP  
(STANDARD NO. MD 655.11) WITH  
DETECTABLE WARNING SURFACE  
(STANDARD NO. MD 655.40)
- REMOVE EXISTING CUT THROUGH AND  
INSTALL SIDEWALK/CURB AND NEW  
CUT-THROUGH ISLAND AND MEDIAN  
OPENINGS (STANDARD NO. MD 655.21)  
WITH DETECTABLE WARNING SURFACE  
(STANDARD NO. MD 655.40)
- INSTALL DEPRESSED STANDARD TYPE A  
COMBINATION CURB AND GUTTER  
(STANDARD NO. MD 620.02) AND TIE  
IT TO EXISTING CURB AND GUTTER.
- INSTALL 5 FT. WIDE SIDEWALK AND  
TIE IT TO EXISTING SIDEWALK.
- INSTALL NEW 5 FT. WIDE SIDEWALK  
BETWEEN THE NEW RAMPS.

#### APS NOTES

- PUSH BUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY  
A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A  
60" X 60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN  
OR EQUAL TO 2%.
- THE 10' SEPARATION BETWEEN PUSH BUTTON IS TO BE MEASURED  
FROM FACE OF PUSH BUTTON TO FACE OF PUSHBUTTON, NOT CENTER  
TO CENTER OF POLE.
- PUSH BUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING  
FOR WHICH THEY ARE INTENDED.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST  
MEET LOCATION REQUIREMENTS OF MUTCD SEC. 4E.09 AND FIG. 4E.2  
AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS:  
GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP  
WORK ON PUSH BUTTON LOCATIONS UNTIL A DESIGN WAIVER IS  
OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- APS WILL FUNCTION AS FOLLOWS:  
TO CROSS MD 355  
A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON  
FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE  
THE FOLLOWING MESSAGE: "WAIT TO CROSS ROCKVILLE PIKE  
AT MONROE AND CHURCH. CROSSWALK ANGLES LEFT."  
B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A  
RAPID TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.  
TO CROSS CHURCH STREET  
A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON  
FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE  
THE FOLLOWING MESSAGE: "WAIT TO CROSS CHURCH AT ROCKVILLE PIKE.  
CROSSWALK ANGLES RIGHT."  
B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID  
TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.  
TO CROSS MONROE PLACE  
A. WHEN A PEDESTRIAN LOCATES AND PRESSES THE PUSHBUTTON  
FOR AN EXTENDED TIME, THE PUSHBUTTON UNIT WILL ANNOUNCE  
THE FOLLOWING MESSAGE: "WAIT TO CROSS MONROE AT ROCKVILLE PIKE."  
B. WHEN THE "WALK" PHASE BEGINS, THE MESSAGE WILL BE A RAPID  
TICK, WHICH WILL LAST FOR THE DURATION OF THE "WALK" PHASE.
- ALL TRUNCATED DOMES (ON DETECTABLE WARNING SURFACES) ARE TO  
BE INSTALLED TO ALIGN WITH THE CROSSWALK.

TOD NO: XX449-26  
SHA NO: M0205A57/B57  
MD 355@ MONROE PL/CHURCH ST

<b>SHA</b>	STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION	
	OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION	
MD 355 (ROCKVILLE PIKE AND MONROE PLACE/CHURCH STREET) TRAFFIC SIGNAL MODIFICATION		
GEOMETRIC IMPROVEMENT DETAILS		
SCALE 1"=10' ADVERTISED DATE _____ CONTRACT NO. XX4495185		
DESIGNED BY NG	COUNTY MONTGOMERY	
DRAWN BY NG	LOGMILE 15035509.40	
CHECKED BY JB	TMS NO. 1780	
F.A.P. NO. _____	TOD NO. _____	
TS NO. 2587-C	DRAWING _____ OF _____	SHEET NO. 2 OF 3

**BAI** BRUDIS & ASSOCIATES, INC.  
Consulting Engineers  
9220 Runway Road, Suite 110  
Columbia, Maryland 21045  
Phone 410-884-3607  
www.brudis.com

PLOTTED: Wednesday, February 23, 2009 AT 02:24 PM  
FILE: P:\04-005 Signals\MD 355 @ Monroe Pl\Drawings\CADD\Working\SG-P002\_355@Monroe Pl.dgn

#### GEOMETRIC LEGEND

— — — — — EXISTING  
= = = = = PROPOSED

#### UTILITY LEGEND

—SD— STORM DRAIN  
—G— GAS MAIN  
—W— WATER MAIN  
—S— SEWER MAIN  
—E— ELECTRIC CABLES  
—A— AERIAL CABLES  
—T— TELEPHONE CABLES  
—F— FIBER-OPTIC

BY: nitesh